VIKHERT, Mikhail Mikhaylovich; DGBROGAYEV, Rostislav Pavlovich; LYAKHOV,
Mikhail Ivanovich; PAVLOV, Aleksey Tasil'yevich; SOLOV'XEV, Mikhail
Petrovich, professor; STEPANOV, Yuriy Aleksendrovich; SUVOROV, Viktor
Origor'yevich; KHANIN, H.S., kandidst tekhnicheskikh nauk, retsenzent;
CHISTOZVONOV, S.B., retsenzent; HECHAYEV, B.K., doktor tekhnicheskikh
nauk, retsenzent; SHUBOVICH, S.I., kandidst tekhnicheskikh nauk,
retsenzent; YEGORKINA, L.I., inzhener, redsktor; SOKOLOVA, T.F.,
tekhnicheskiy redsktor

[Construction and design of truck and tractor engines] Konstruktsia i raschet avtotraktornykh dvigatelei. Pod red. IU.A.Stepanova.

Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 604 p.

(MIRA 10:10)

1. Gosudarstvennyy soyusnyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut (for Khanin, Chistosvonov). 2. Kafedra dvigateley vnytrennego sgoraniya Tomskogo politekhnicheskogo instituta (for Mechayev, Shubovich)

(Motortrucks--Engines) (Tractors--Engines)

SOV-113-58-9-18/19

AUTHOR:

Tokarev, G.G., Candidate of Technical Sciences

TITLE:

Criticism and Bibliography (Kritika i bibliografiya)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 9, p 48 (USSR)

ABSTRACT:

This is a review of the book "Konstruktsiya i raschet avtotraktornykh dvigateley" (Designing and Calculating Tractor Engines) by M.M. Vikhert, R.P. Dobrogayev, M.I. Lyakhov, A.V. Pavlov, M.P. Solov'yev, Yu.A. Stepanov, V.G. Suvorov, published under the editorship of Professor Yu.A. Stepanov

by Mashgiz 1957.

Silver of the Miller

ASSOCIATION: NIIAT (NIIAT)

1. Automobile industry--USSR 2. Combustion engines--Design

Card 1/1

SOLOV'YEV, M.S.

Use of Paninfrachromatic films in aerial surveying. Trudy
TSNIIGAIK no.142:165-171 '61.
(Aerial photogrammetry) (Photography-Films)

Control delication in a control of the state of the state

SAYDOV, Pavel Ivanovich, prof.; SOLOV'YEV, M.V.; ODINTSOV, A.A.; KELAREV, L.A., tekhn. red.

[Practical work in a gyroscopic laboratory; textbook for laboratory work] Prakticheskie zaniatiia v giroskopicheskoi laboratorii; posobie k laboratornym rabotam. Pod red. P.I. Saidova. Leningrad, Leningr. elektrotekhr. in-t im. V.I.Uli-ianova (Lenina). 1962. 121 p. (MIRA 15:5) (Oyroscope)

Basic results of work in introducing and breeding grapes in the
Kiev area. Trudy Bot. sada AN URRE 1:108-127 %. (MEA 10:8)

(Kiev Province--Viticulture)

FD-1210

111. USSR/Geophysics - Soil study of kolkhozes

Card 1/1

rub. 129-13/19

Author

: Solov'yev, M. V.

Title

: Agricultural productive utilization of pedological (soil) investiga-

tions of kolkhozes in Khimkinskiy Rayon, Moskovskaya Oblast

Periodical

: Vest. Mos. un., Ser. fizikomat. i yest. nauk, 9, No 5, 127-132,

Aug 54

Abstract

: In 1953 the Chair of Soil Science, in the Biologico-Pedological Faculty of Moscow University, investigated five large-scale kolkhozes near Khimki, under the guidance of P. N. Chizhikov, senior scientific associate of the Chair, with the ultimate purpose of helping the kolkhozes raise the fertility of their soils and consequently their yield, in accordance with the general resolutions of the 19th Communist Party Congress. The author demonstrates how pulverized chemical fertilizers (e.g. superphosphates) and rotation increase crop yield. Twelve references, all USSR (e.g. N. S. Rozanov, Ispol'zovaniye torfa v sel'skom khozyaystve [Use of peat in agriculture], Sel'khozgiz,

1953).

Institution : Chair of Soil Science

Submitted

: January 3, 1954

BOLYSHEV, N.H.; SOLOV YEV, M.V.

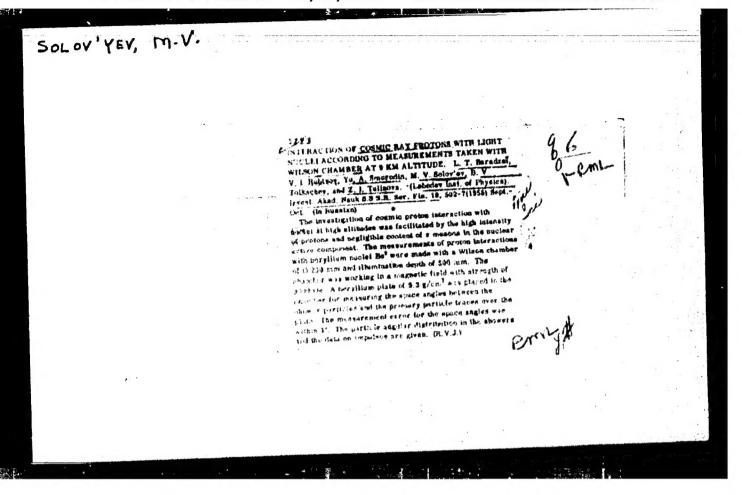
Methods of investigating soils of state farms established on virgin lands. Pochvovedenie no.4:51-60 Ap 158. (MIRA 11:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Soil surveys)

PAVLOV, Boris Vasil'yevich; MORZHAKOV, S.P., kand. tekhn.nauk, red.; retsenzent; SOLOV'YEV, M.V., kand. tekhn.nauk, red.; CHFAS, M.A., red.izd-vw; PETERSON, M.M., tekhn. red.

[Vertical balancing machines] Vertikal'nye balansirovochnye stanki. Moskva, Mashgis, 1963. 100 p. (MIRA 16:4)

(Balancing of machinery)



BARADZEY, L.T.; RUBTSOV, V.I.; SMORODIN, Yu.A.; SOLOV'YEV, M.V.; TOLKACHEV, B.V.; TULINOVA, Z.I.

Formation of electron-photon components in the reaction between cosmic-ray particles with energies exceeding 10¹¹ ev. and beryllium nuclei [with summary in English]. Zhur. eksp. i teor. fis. 33 no.1: 17-20 J1 57.

1. Fizicheskiy institut im. P.N. Lebedeva Akademii nauk SSSR. (Cosmic rays) (Nuclear reactions)

56-7-3/66

AUTHOR

BARADZEY, L.T., RUBTSOV, V.I., SMORCDIN, Yu.A., SOLOV'1EV, M.V.,

TOCHKAYEV, B.V., TULINOVA, 2.1.

On the Formation of the Electron-Photon-Component in the Interaction TITLE

between Cosmic Ray Particles with Energies Exceeding to 1011 eV and

(Ob obrazovanii elektronno-fotonnoy komponenty pri vzaimodeystvii chastits kosmicheskikh luchey s energiyey vyshe 1011 eV s yadrami

berilliya. Russian)

PERIODICAL

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 33, Nr 7, pp 17 - 20

(U.S.S.R.)

ABSTRACT

The present paper describes the results of experiments carried out with a WILSON chamber which was fitted in a magnetic field. This WILSON cloud chamber operated for 52 hours in a height of 900 m. above this cloud chamber a beryllium block was located, in the interior of which a lead plate was fitted. On the occasion of the production of electron-photon showers in the absorbers the cloud chamber was photographed. 1490 photographs were obtained and on 86 of them electronic-nuclear showers from the beryllium block were found recorded. Among them 5 electronic--nuclear showers were found in which more than lo parts were observed. h photographs of interactions are attached. The most important data on the showers investigated here are shown in a table. This table imparts

Card 1/3

CIA-RDP86-00513R001652320001-1" APPROVED FOR RELEASE: 08/25/2000

EDITION OF THE PROPERTY OF THE RESIDENCE OF THE RESIDENCE

On the Formation of the Electron-Photon-Component in the Interaction between Cosmic Ray Particles with Energies Exceeding to 10¹¹ eV and Beryllium Nuclei

various informations as e.g. on the number of particles observed above the lead plate, on the number of particles identified as electrons, on the number of particles which have passed through the lead plate without cascade multiplication, on the maximum number of penetrating particles, on the point where the showers were formed, on the angle $0_{1/2}$ within which half of the particles is radiated, on the lower limit of the total energy of the penetrating particles, on the number of electrons below the lead plate with more than 6 and 30 eV, on the total energy of those electrons which were obtained by measuring the electron momenta below the plate, on the lower limit of the energy of the electron-photon components, on the energy of the electron-photon components produced on the occasion of the interaction, on the ratio between the energy of the electron-photon components and the energy of the impinging particle, and on the number of the secondary interactions observed in the lead plate. The data mentioned in this table show the following: On the occasion of the interaction of charged cosmic ray particles (1011 - 1012 eV) with light nuclei the energy transferred to the electron-photon component is subjected to important fluctuations and can drop down to some tenth of a percent. (With 4 illustrations and 1 table).

Card 2/3

CIA-RDP86-00513R001652320001-1 "APPROVED FOR RELEASE: 08/25/2000

COLC . AUTHORS:

1 -20-4+14/60 Baradzey, L. T., Rubtsov V.I., Smorodin Ya.A. 46 C

Solov'yev M.V., Tolkachev B.V., Tulinova J.I.,

TITLE

The Interaction of the Protons of Cosmic Hays With an Energy of About to BeV With Lead-Nuclei (Vzaimode/stviye protonov kosmicheskikh luchey a energiyey okolo 1010 eV a yadrami avintsa).

PERIODICAL:

Deklady Akad. Nauk SSSR, 1957, Vol. 115, Nr 4, pp. 685-688 (USSR)

ABSTRACT:

These investigations were performed in an altitude of 9000 m by means of a cloud chamber in a magnetic field with 9200 oersteds. The scheme for the control mechanism of the chamber is illustrated by a sketch. In order to exclude the interactions caused by pions, the nuclear showers caused in the lead-plate by one individual charged particle were investigated. Altogether 38 of those case were selected, the characteristic photographs of the showers are given. The maximum measured impulse of the charged particles was 3 BeV/c. A table illustrates the distribution of the showers on the number n of particles in the shower. The average number of the particles per interaction is 3,9 ± 0,3. The experimental data yield some indications concerning the chief components of the electron-nucleus showers. A diagram illustrates the data of the energy distribution of the electrons, when this spectrum is described by a law of the type dW/dE~E-7, the exponent(is variable. (~1) in the case of small energies and -2,5 in the case of energies of

Card 1/2

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ASSUCIATION:

Moscow State University imeni M.V.Lomonosov.Physical Institute AN USSR imeni P.N.Lebedev (Moskovskiy gos. universitet imeni M.V. Lomonosova, Fizicheskiy institut imeni P.H. Lebedeva AN SSSR).

PRESAPPROVED FOR RELEASE 508/25/2000 CIA-RDP86-00 CIA-RDP86-00513R001652320001-1"

AVAILABLE:

Library of Congress.

Card 2/2

CLUTAN. ... V.

ABSORPTION OF NUCLEOUS WITH ENERGIES FROM 10 TO 10 ev IN LAIR
A.T. Baradze, V.I. Ruotsov, Yu.A. Smorodin, M.V. Solovyev, B.V. Tolkachev
11 13

1. Nucleons in the energy range from 10 to 10 ev were studied at altitudes corresponding to pressures of 300 gms/cm².

The instruments used made it immediately at the content of the co

The instruments used made it impossible to record ionization bursts due to the multiplication in lead of the electron-photon component generated by the interaction of high energy particles with carbon nuclei. 2 trays of cylindrical ionization chambers were placed under 4 and 8 radiunits of lead, respectively. The magnitude of the ionization curst in each chamber was recorded. Hodoscope counter set at distances from 0 to 10 m enabled us to detect air snowers.

Report presented at the International Cos.ic Ray Conference, Moscow, 6-11 July 1959

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31531 S/627/60/002/000/013/027 D299/D304

3,24/0(2705,2805,1559) AUTHORS: Baradzey, L. T..

Baradzey, L. T., Rubtsov, V. I., Smorodin, Yu. A., Solov'yev, M. V. and Tolkachev, B. V.

TITLE:

Absorption of high-energy nucleons in the atmosphere

SOURCE:

International Conference on Cosmic Radiation. Moscow, 1959. Trudy. v. 2. Shirokiye atmosfernyye livni i kas-

kadnyye proteessy, 152-158

TEXT: The apparatus which was installed in an aircraft permitted studying large ionization bursts at various depths in the atmosphere: $p = 200 \text{ gm/cm}^2$, $p = 310 \text{ gm/cm}^2$, $p = 1020 \text{ gm/cm}^2$. The apparatus incorporated ionization chambers and hodoscoped counters. The energy spectrum of the electron-photon component was obtained, for energies of $2 \cdot 10^{10}$ to $2 \cdot 10^{12}$ ev. It was found that in most cases the energy of the electron-photon component collimates well around the shower axis which lies in the area of the ionization chambers. A table shows the mean ionization-distribution in the chambers. The fast drop in energy density with distance from the shower axis

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Absorption of high-energy ...

shows that the recorded events are cascade showers of primary particles, namely gamma-quanta showers formed by the decay of \mathcal{T}^0 -mesons. The differential spectra of the electron-photon component show that for energies of $2 \cdot 10^{10}$ to $2 \cdot 10^{12}$ ev. the spectrum can be approximated by a power law with exponent $\mathcal{T} = 2.75 \pm 0.07$ for all the altitudes under consideration. The electron energy spectrum for the one-dimensional problem was calculated in the approximation A which is sufficient for the small distances from the shower axis involved. The exponential change in atmospheric density was taken into account by means of Greisen's approximate method (Ref. 1: Pizika kosmicheskikh luchey (translation into Russian of "Progress in Cosmic Ray Physics", edited by J. G. Wilson), v. 3, chapt. 1, IL, 1958). The differential energy spectrum of the electron-photon component is

$$\frac{dN}{dE} = AE^{-\xi} \int_{0}^{\infty} \alpha(t, E) \xi^{-1} \left(1 - \frac{\partial \ln \alpha}{\partial \ln E}\right) e^{\frac{t}{\Omega}} dt = AE^{-\xi}C(E, P)$$
 (2)

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Absorption of high-energy ...

where C is the thickness of the effective layer for photon generation. Thereupon, the photon generation spectrum is obtained. The absorption length of the component which generates photons of energy 10¹¹ to 10¹² ev. is 120 gm/cm². Further, the energy of the nuclearactive particles is estimated which generate the photons. It was found that at pressures of 200 and 310 gm/cm², the electron density drops in accordance with the law r^{-0.7} ± 0.1, up to distances of 10 m from the ionization chambers. This table shows also the values of the energy of nuclearactive particles. It was established that the photons are generated by nuclearactive particles, whose energy is a hundredfold the energy of the photons. The study of electron-photon cascades at high altitudes, where the effective recording-layer is small, permits investigating the generation of the electron-photon component by the interaction of nuclearactive particles with energies of 10¹³ - 10¹⁴ ev., with light nuclei. The absolute intensity of the nuclearactive component was obtained on the assumption that on interacting with the carbon nucleus, the

Card 3/5

31531 S/627/60/002/000/013/027 D299/D304

Absorption of high-enery ...

high-energy nucleon transmits 10% of its energy to the particles with energies of 10¹¹ to 10¹³ ev. does not change, tive particles with energies of 10¹¹ to 10¹³ ev. does not change, remaining close to 120 gm/cm². In this energy range, the spectrum of the primary cosmic particles is

$$N(\geq E) = 900 \left(\frac{E}{10^{12}}\right)^{-1,5} \frac{\text{particle}}{m^2 \text{ hour sterad}}$$
 (4)

The relation between the differential spectrum of the nuclearactive component (expressed by E_0^-), the differential spectrum of the generated T-mesons (E^{-E}), and the energy of the T-mesons (following the law E_1^- = const· E_0^{β}), yields the formula

$$\beta = \frac{E - 2}{E - 2} \tag{5}$$

Card 4/5

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Absorption of high-energy ...

From the experimental data it follows that 8~0.5; with a correction for the small number of high-energy particles, one obtains 8~1. There are 4 figures, 4 tables and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc (including 1 translation). The references to the English-language publications read as follows: M. F. Kaplon, J. Z. Klose, D. M. Ritson, W. O. Walker, Phys. Rev., 91, 1573, 1953; K. Kamata, J. Nishimura, Suppl. of Progr. Theor. Phys., no. 6, 93, 1958.

ASSOCIATION:

Fizicheskiy institut im. P. N. Lebedeva AN SSSR(Physics Institute im. P. N. Lebedev AS USSR); Nauchnoissledovatel'skiy institut yadernoy fiziki MGU (Scientific Research Institute of Nuclear Physics Moscow State University)

Card 5/5

SOV/56-36-6-1/66 21(8) Baradzey, L. T., Solov'yev, M. V., Tulinova, Z. I., Filatova, L. I. AUTHORS: Momentum Spectrum of Particles of the Hard Component of Cosmic TITLE: Rays at an Altitude of 9000 m (Spektr impul'sov chastits zhestkoy komponenty kosmicheskikh luchey na vysote 9000 m)

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, PERIODICAL: Vol 36, Nr 6, pp 1617 - 1620 (USSR)

The authors report on the momentum spectra (for momenta between ABSTRACT: 0.3.109 and 6.109 ev/c) recorded by them by means of a cloud chamber and a quintuple coincidence circuit obtained at an altitude of 9 km. In the introduction they describe the apparatus (Fig 1) and give a topographical description of the magnetic field (Fig 2) (average field strength 9090 0e). Within 14 hours 700 photographs were taken, on which 445 curved traces having a length of 15-17 on were measured by means of the optical compensator IG-22. For setting up the spectrum the traces were used which form an angle of < 40 with the chamber plane. Figure 3 shows a momentum spectrum obtained in this manner, composed from the data of two series of measurements. The absolute intensity of this spectrum corresponded to a total intensity of the hard

Card 1/3

Momentum Spectrum of Particles of the Hard Component SOV/56-36-6-1/66 of Cosmic Rays at an Altitude of 9000 m

component of 3.0±0.15 particles cm⁻²min⁻¹steradian⁻¹, which is in good agreement with the results obtained by Vernov et al (Ref 1). The spectral curve within the range of (2-6).10⁹ ev/c can easily be represented by an exponential function with the exponent 2.8±0.5. Figure 5 shows the measured (and also the calculated) spectral curves for negative particles, which were identified as muons, within a larger momentum range. A comparison with the results with ½ -spectra at sea level (Refs 5,6) leads to the conclusion that within the momentum interval of 5.10⁸ - 3.10⁹ ev/c about 60% of all muons recorded at sea level are produced at altitudes of > 9 km. Figure 6 shows the spectrum of the positive particles; in the case of momenta < 4.8.10⁸ ev/c muons are concerned. The ratio between positive and negative muons within the range (3-7)10⁸ ev/c is 1.7±0.4. Within the momentum range >7.8.10⁸ ev/c the positive particles may be both µ+ mesons and protons. The ratio k=µ+/µ- depends only slightly on momentum and altitude and is between 1.2 and 1.3. For momenta >10⁹ ev/c, k= 1.25. Figure 6 shows the positive spectrum at an altitude of 9 km, viz. the muon- and the proton

Card 2/3

Momentum Spectrum of Particles of the Hard Component 80V/56-36-6-1/66 of Cosmic Rays at an Altitude of 9000 m

curve on the basis of data obtained from two series. Within the range of $(1 \div 5).10^9$ ev/c it is found that the protons amount to $(50\pm10)\%$ of the total number of penetrating particles within this range. Also the spectral curves of the positive particles within the range of $(2\div5).10^9$ ev/c may be approximated by means of exponential curves, with an exponent which corresponds to the negative particle within the error limits. The authors thank Yu. A. Smorodin for supervising the work performed and for discussing the results obtained. There are 6 figures and 7 references, 1 of which is Soviet.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Institute of Nuclear Physics of Moscow State University)

SUBMITTED: December 12, 1958

Card 3/3

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652320001-1

BAPADZEY, L. T., RUBTSOV, V. I., SOLOVYEV, M. V. and TOLKACHEV, B. V.

"Production of the Electron-Photon Component in the Interaction of Particles of Energies 1012 to 1014 ev with Light Nuclei in Atmosphere"

Report presented at the International Conference on Cosmic Rays and Earth Storm, 4-15 Sep 61, Kyoto, Japan.

P. N. Lebedev Physical Institute of the Academy of Science of the USSR and Nuclear Physics Research Institute of the Moscow University, USSR

3, 2410 (2205, 2705, 2805)

S/048/62/026/005/004/022 B109/B104

AU THORS:

Baradzey, L. T., Rubtsov, 7. 1., Smorodin, Yu. A.,

Solov'yev, E. V., and Tolkachev, B. V.

TI FLE:

Formation of an electron-photon component in the interaction

of particles of 10 12-10 14 ev with light nuclei in the

atmosphere

PERIODICAL:

akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,

no. 5, 1962, 575-584

TEXT: with the aid of ionization chambers with an area of 0.2 m², the authors obtained data on: (1) the energy spectra of electron-photon avalanches falling upon the apparatus from the air at pressures of 200, 300, and 1030 g/cm^2 ; (2) the energy spectra of cascades induced by nuclear-active particles in the graphite block above the apparatus at pressures of 200 and 300 g/cm^2 ; (3) the air showers accompanying the particles. The particle densities in the showers were determined immediately at the

Card 1/5

Formation of an electron-photon ...

\$/048/62/026/005/004/022 B108/B104

particles of an energy exceeding the photon energy by one order of magnitude. The photon spectra at high energies (above 2-4.1012 ev) differ considerably from those obtained at low energies. This is probably due to increased energy dissipation by new secondary radiation processes. The absorption path of nuclear-active particles in the atmosphere can be determined from the absorption path of the component producing the electromagnetic cascade in the light substance, or from the absorption path of the component producing high-energy photons in the atmosphere. The coefficient of inelasticity of nucleon interaction remains unchanged over a wide range of energies. The intensity of primary cosmic radiation in the energy range 2.10 11-2.10 15 ev is

 $N(\sim E) = (600 \pm 150)(E/10^{12})^{-1.7} \pm 0.15 \, \text{hr}^{-1} \, \text{m}^{-2} \, \text{sterad}^{-1}$

This spectrum is consistent with results of more accurate calculations. In re are 9 figures and 3 tables.

Card 2/3

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\$/048/62/026/005/004/022 B108/B104

Formation of an electron-photon ...

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute imeni P. N. Lebedev of the Academy of Sciences USSR); Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gos. universiteta im. N. V. Lomonosova (Scientific Research Institute of Nuclear Physics of the Moscow State University imeni M. V. Lomonosov)

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Card 3/3

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652320001-1

MADZEY, V. .. SUSTSOV, Yu. A. SMORODIN, M. V. SOLOVYEV

Stion of High Energy Nucleions in the Atmosphere and Production of Meson.

Stort submitted for the Sth Intl. Conf. on Cosmic Rays (IUPAP), Jaipur, India, 2-14 Dec 1963

L 16016-65 EWT(m) DIAAP/AFWL/SSD ACCESSION NR: AP4049588

8/0048/64/028/011/1807/1811

AUTHOR: Baradzey, L. T.; Rubtsov, V. I.; Smorodin, Yu. A.; Solov'yev, H. V.

B

TITLE: Passage of high-energy nucleons through the atmosphere and the formation of mesons. [Report presented at the Vsesoyuznoye soveshchaniye po fizike kosmicheskikh luchey (All-Union Conference on Cosmic Rays), held in Moscow from 4 to 10 October 1963]

SOURCE: AN SSSR. Izv. Seriya fizicheskaya, v. 28, no. 11, 1964, 1807-1811

TOPIC TAGS: primary nucleon, cascade spectrum, nuclear component, terrestrial atmosphere, energy nuclear cascade, electron photon component, meson, pion

ABSTRACT: The spectrum of the primary nucleons in meson generation becomes sharper than the cascade spectra. The absorption of the active nuclear component in the terrestrial atmosphere may be determined by the ratio of the energy of secondary particles to the energy of the primary component, neglecting the magnitudes of these energies. The Cord 1/3

L 16016-65 ACCESSION NR: AP4049588 2

flux of the active nuclear component in the atmosphere at a depth t may be computed by using formulas for high energies and comparing the results with spectra of the nuclear cascades. The part of the energy transferred to the electron-photon component during the nuclear interaction is 0.22^{17} . This result makes it possible to assume that the generation of π^0 -mesons with energies of $10^{11}-10^{13}$ ev is proportional to the energy of active nuclear particles. The formation of π^+ and π^- mesons may resemble the formation of π^0 mesons, and the probability of all generated pions is 0.26^{17} . An analysis of the data obtained shows that π^0 mesons are associated with showers whose energy is 10 times that of the π^0 meson energy. Orig. art. has: 2 figures, 5 formulas, and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernoy fiziki
Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova
(Scientific Research Institute of Nuclear Physics of the Hoscow State
University); Fizicheskiy institut im. P. N. Lebedeva Akademii nauk
SSSR (Institute of Physics, Academy of Sciences, SSSR)

Card 2/3

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652320001-1

L 16016-65
ACCESSION NR: AP4049588

SUBMITTED: 00 ENCL: 00 SUB CODE: ES

NO REF SOV: 012 OTHER: 012 ATD PRESS: 3142

Card 3/3

EWT(m)/ DIAAP 24662-65 ACCESSION NR: AT4049957

8/2504/64/026/000/0224/0248



AUTHOR: Baradzey, L.T.; Rubtsov, V.I.; Smorodin, Yu. A.; Solov'yen, M.V.;

Tolkachev, B.V.

TITLE: Passage of high-energy nucleons through the atmosphere and the formation of mesons

SOURCE: AN SSSR. Fizicheskly institut. Trudy*, v. 26, 1964. Kosmicheskiye luchi (Cosmic rays), 224-248

TOPIC TAGS: cascade multiplication, pion, nucleon, meson, avalanche, muon, gamma quantum, high energy particle

ABSTRACT: An analysis is made of recently collected data on the passage of $10^{12} - 10^{14}$ ev nucleons through the atmosphere. Energies of electron-photon cascade were measured with instruments which recorded ionization bursts resulting from an avalanche in a lead filter. The three instruments used are described. The energy spectra of nuclear cascades are discussed, taking into account shortening of the spectrum of primary $N(>E) = 500(E)^{-1.7}(-0.15 + 2.75(E)^{-0.2} - 1.6(E)^{-0.4})$ nucleon/hr.m². ster nucleons in the form

where the effective fraction of energy conversion is close to 0.5 and the fraction of energy

Card 1/3

· L 24662-65

ACCESSION NR: AT4049957

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transferred to the electron photon component during interation with nuclei of the air \triangle_{e-p} is such that $\int_{0}^{1} \Delta_{\bullet}^{1/2} /(\Delta_{\bullet - \Phi}) d\Delta_{\bullet - \Phi} = 0.08 \pm 0.02 = 0.22^{1/2}.$ (2)

Data on the flux of nuclear-active cosmic-ray components at various atmosphere depths is summarized. Energy spectra of electron-photon avalanches incipient in the atmosphere and generation of γ -quanta are discussed. The formation of pions and pion fluxes in the atmosphere is treated. The fraction of energy carried by π^* -mesons generated in the energy range below 10^{14} ev is expressed as $\int_{0}^{\infty} \Delta_{\pi^*}^{17}/(\Delta_{\pi^*}) d\Delta_{\pi_*} = 0.033 \pm 0.007 = 0.14^{1.7}$. (3)

Calculation of charged pion flux indicates that the generation of mesons of different sign may be expected at energies of about 10^{11} ev. It also indicates that in the 10^{11} – 2.10^{12} ev range pions make a significant contribution to nuclear-active components of the flux. About half of the nuclear cascades of a given energy and generated in thin filters are formed in the lower third of the atmosphere by π +-mesons. Muon flux at sea level calculated from data on atmospheric generation of Υ -quanta coincides with experimental values in the 10^{11} - 2.10^{12} ev range, indicating that the overwhelming fraction of muons in the atmosphere results from the decay of pions. "The authors

Card 2/3

L 24662-65

ACCESSION NR: AT4049957

2

thank S.N. Vernov for his constant help, as well as R.A. Antonov for carrying out the godoscopic studies." Orig. art. has: 12 figures, 9 tables and 29 formulas.

ASSOCIATION: Fizicheskly institut AN SSSR (Physics Institute, AN SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: AA

NO REF SOV: 028

OTHER: 018

Card 3/3

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652320001-1"

GORSHKOV, N.I., kand. voyenno morskikh nauk, kapitan 1-go ranga; FCLUSHAKOV, P.M., dotsent, kand, voyenno morsk. nauk, kapitan 1-go ranga; SOLOVIYTV, M.V., inzh.-kapitan 2-go ranga; KOLCHIN, G.A., kapitan 3-go ranga; SEN', K.A., kapitan-leytenant

1t should be improved and published anew. Mor. sbor. 42 no.12:
82-87 D '(4.

L 7990-66 EWT(m)/EWP(w)/EPF(c)/EWP(v)/EMP(1)/T WW/EM/RM
ACC NR: AP5026547 SOURCE CODE: UE/0286/65/000/019/0095/0095

AUTHORS: Solov'yev, M. V.; Chernenko, M. S.

ORG: none

TITLE: A method for gluing on resistance strain gauges. Class 42, No. 175298

/presented by the Enterprise of the State Committee for Defense Technology SSSR

(Predpriyatiyo gosudarstvennogo komiteta po oboronnoy tekhnike SSSR)/

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 95

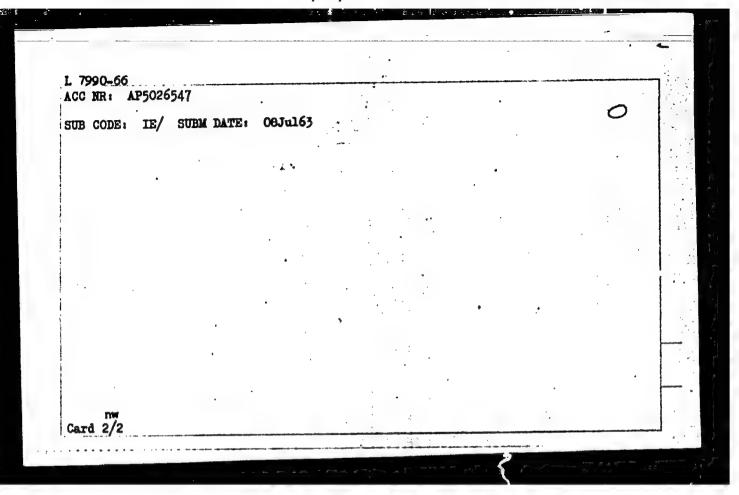
TOPIC TAGS: strain gage, automation, measuring instrument

ABSTRACT: This Author Certificate presents a method for gluing resistance strain muges onto a detail with the shape of a solid of revolution. To mechanize the process of fixing the strain gauges, the latter are glued onto a base the underside of which is fixed to a plate. The surface of this plate corresponds to the developed surface of the part. Scribe marks on the surface of the part indicate where the strain gauges are to be glued. The glue is applied to the part, the latter is pressed to the plate with the strain gauges and is revolved, while both the part and the plate are moved rectilinearly in relation to one another.

Card 1/2

UDC: 620.172.216

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652320001-1

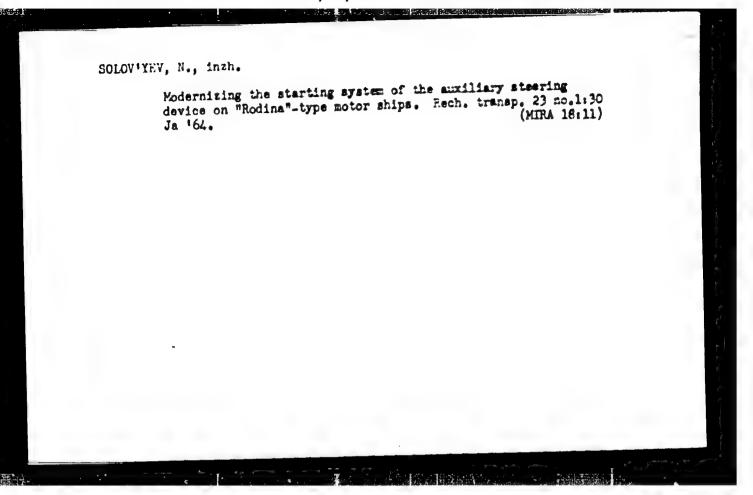


Mechanizing the assembly of hinges. Trakt. i sel'khozmash. 32 no.12:37 (MikA 16:3) p'62. (Hinges) (Cutting machines)

NOVIKOV, A.B.; SOLOVIYEV, N.A.; INTEREST, N.A.

Procumatic mandrel for gripping thin-smalled parts. Art.prom.
28 no.1:43 Ja '62.

1. Yaroslavskiy motornyy zavod.
(Lathes)



ORLOV, V.P., kand.sel'skokhoz.nauk. Prinimeli uchastiye: AVROV, N.N.;

BASENKO, P.V.; VARLAMOV, D.A.; VASIL'YEV, I.I.; VLASOV, V.H.;

VYLEGZHANINA, V.A.; ZHIVET'YZV, V.G.; ZAVADSKIY, I.S.; ZALESSKIY,

Ye.Ye.; ZAKORYUKIN, D.S.; ISHCHENKO, I.N.; KACHIBAYA, I.D.; KISELEV, Ye.S.; KOZHEVNIKOV, I.Z.; LISITSYN, V.I.; MESHCHERYAKOV, V.P.;

NYURIN-VERTSEERO, R.L.; PEREPELITSA, V.M.; RYABKOV, A.D.; SEURIKHIN,

I.P.; SOLOV'YEV, N.A.; YAS'KO, N.G., GREBTSOV, P.P., red.; ZUBRILIHA,

Z.P., tekhn.red,

[Our farms in 1965] Nashi khozisistva v 1965 godu. Moskva, Gos. izd-vo sel'khoz.lit-ry, 1959. 230 p. (Agriculture)

POVOROZHENKO, V.V., professir, Sulovivav, N.A., inshener.

Twenty-fifth anniversary of the founding of the Moscow Institute of Transportation Economics. Trudy MTMI no.3:3-17 '56.

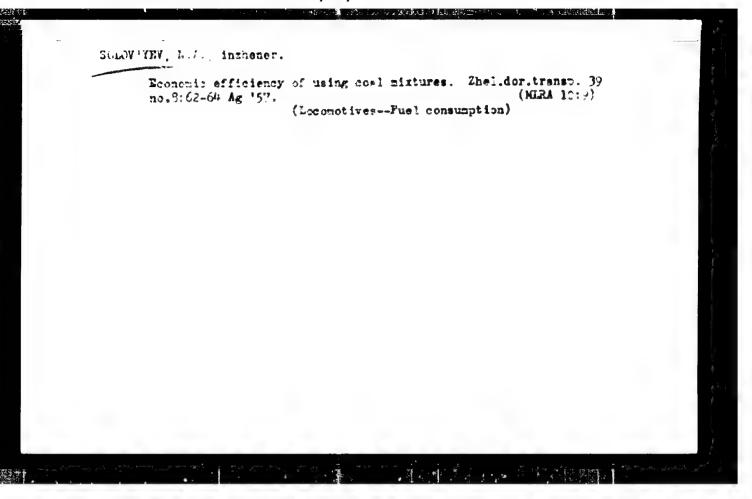
(MIMA 10:6)

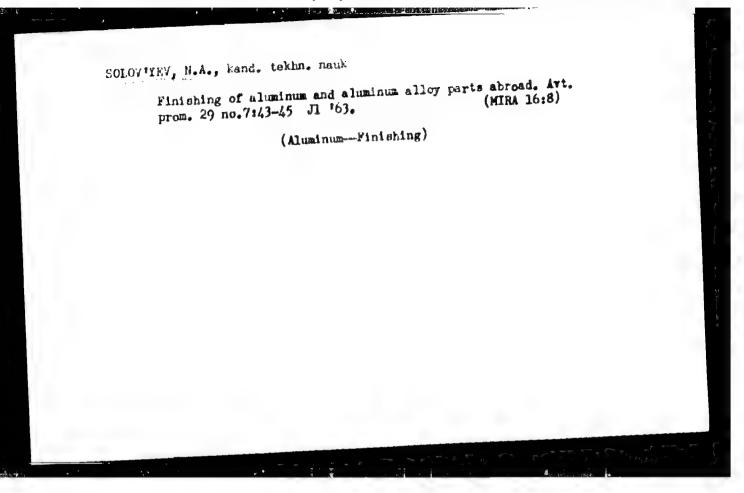
1. Nachal'nik Neskovskogo transportno-ekonomichsekogo instituta (for Povorozhenio). 2. Sekretar' partbyuro Moskovskogo transportno-ekonomichsekogo instituta (for Solovivav).

(Moscow--Tachnical education)

SOLOVINV, N.A., aspirant.

Solovinv, N.A., aspir





SOLOV'YEV, N.A.

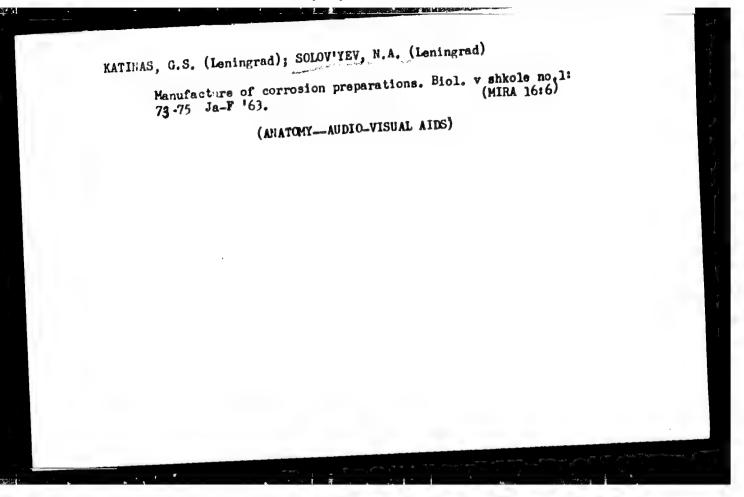
Mechanism of the biological action of a pulsed magnetic field.

(MIRA 16:3)

Dokl. AN SSSR 149 no.2:438-441 Mr '63.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya Ministerstva Maravookhraneniya SSSR.

Predstavleno akademikom V.N.Chernigovskim (MAGNETIC FIELDS PHYSIOLOGICAL EFFECT)

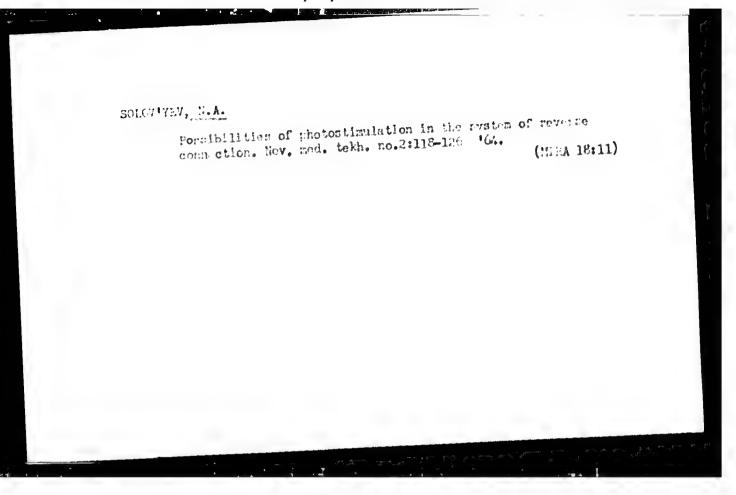


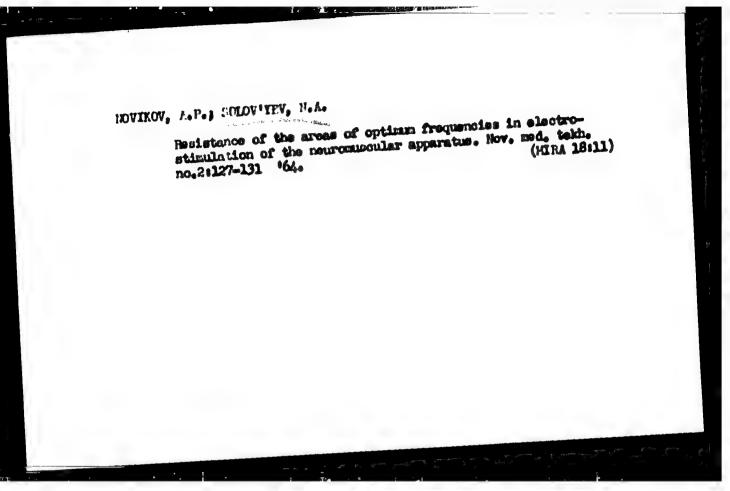
SHUENIKOV, Aleksey Kus'mich, doktor tekhn. nauk; ISTOMIN, Lev Ivanovich, insh.; SOLOV'YEV, Mikolay Aleksendrovich, kand. tekhn. nauk; insh.; SOLOV'YEV, Mikolay Aleksendrovich, kand. tekhn. nauk; SRIENYI, V.M., POPOV, Viktor Mikhaylovich, kand. tekhn. nauk; SRIENYI, V.M., retsenzent; SAMUSEV, V.P., red. izd-va; SHAFETA, S.M., tekhn.red. retsenzent; SAMUSEV, V.P., red. izd-va; SHAFETA, S.M., tekhn.red. [Planning and linear programming of coal supplying]Planirovanie i lineinoe programmirovanie uglesnabzheniia. Pod obshchei red. A.K. Shubnikova. Kiev, Gostekhizdat USSR, 1962. 364 p. (MIRA 16:2) (Coal)

POPOV, V.M.; ISTOMIN, L.I.; SOLOV'YEV, N.A.

Technical and economic effectiveness of the conversion of a foundry boiler room from solid to gaseous fule. Trudy IGI 16:458-466 '61.

(Boilers) (Gas, Natural)





SOLOV'YEV, A.V.; SOLOV'YEV, N.A.; SOLODKINA, O.V.

Effect of total body irradiation on the secretory function of different areas of the stomach. Trudy Inst. fiziol. 6:509-513 '57.

(MIRA 11:4)

1. Laboratoriya fiziologii i patologii pishchevareniya i krovoobrashcheniya (zaraduyushchiy A.V. Solov'yev).

(X RAYS--PHYSIOLOGICAL EFFECT) (STOMACH--SECHETIONS)

Effect of whole body X-ray irradiation on the cholagogic function of the liver. Nauch soob. Inst. fiziol. AN SSSR no.1:175-176 '59. (MIRA 14:10) 1. Laboratoriya fiziologii pishchevareniya (zav. A.V. Solov'yev) Instituta fiziologii imeni Pavlova AN SSSR. Instituta fiziologii Territori (BILE)

S/194/61/000/006/045/077 D201/D302

AUTHORS:

Livshits, B.N. and Solov'yev, N.A.

TITLE:

Recording devices in electromedical diagnostic

equipment

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1961, 5, abstract 6 E26 (Elektronika v medit-

sine, M-L, Gosenergoizdat, 1960, 130-136)

The advantages are shown of fast-operating recorders with direct writing. Technical data are given of a polarized pen recordder 477 (ChPG) designed at the VNII MIIO. The non-uniformity of frequency response within the range 0-120 c/s is 1 db, the amplitude response is linear within 15 mm with an error of 5%. A survey of other methods of direct recording is given: Electro-graphical, jet-recording (mingo-graphical) with electrostatic control, etc. Abstractor's motor Complete translation. stracter's note: Complete translation_7

Card 1/1

KLIMOV, P.K.; POPOV, M.M.; SOLOV'YEV, N.A.

Motor function of the gall bladder in intravenous cholegraphy.
Trudy Inst. fiziol. 9:82-86 160. (MIRA 14:3)

1. Laboratoriya nevrofiziologicheskikh problem (zaveduyushchiy - K.M.Bykov [deceased]) i laboratoriya fiziologii pishchevareniya (zaveduyushchiy - A.V.Solov'yev) Instituta fiziologii im.I.P.Pavlova. (GALL BLADDER-RADIOGRAPHY)

KLIMOV, P.K.; POPOV, M.M.; SOLOV YEV, N.A.

Metor function of the gall bladder in acute radiation sickness (radiographic investigation). Trudy Inst. fiziol. 9:232-236 160.

1. Laboratoriya nevrofiziologicheskikh problem (zaveduyushchiy - K.M.Bykov [deqëased]) i Laboratoriya fiziologii pishchevareniya (saveduyushchiy - A.V.Solov'yev) Instituta fiziologii im. I.P.Pavlova. (GALL BLADDER RADIOGRAPHY)

(RADIATION SICKNESS)

SOLOV YEV, N.A.

Influence of total-body roentgen irradiation on bile secretion. Trudy Inst. fiziol. 9:249-253 '60. (MIRA 14:3)

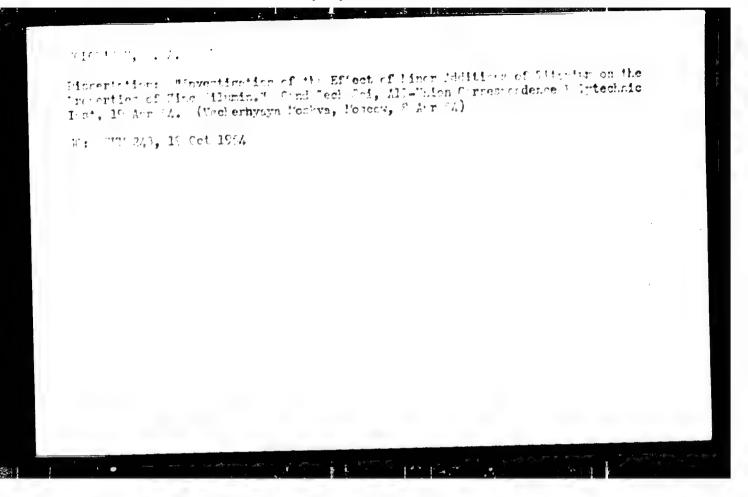
1. Iaboratoriya fiziologii pishchevareniya (zaveduyushchiy - A.V. Solov'yev) Instituta fiziologii im. I.P.Pavlova.
(X RAYS--PHYSIOLOGICAL EFFECT) (BILE)

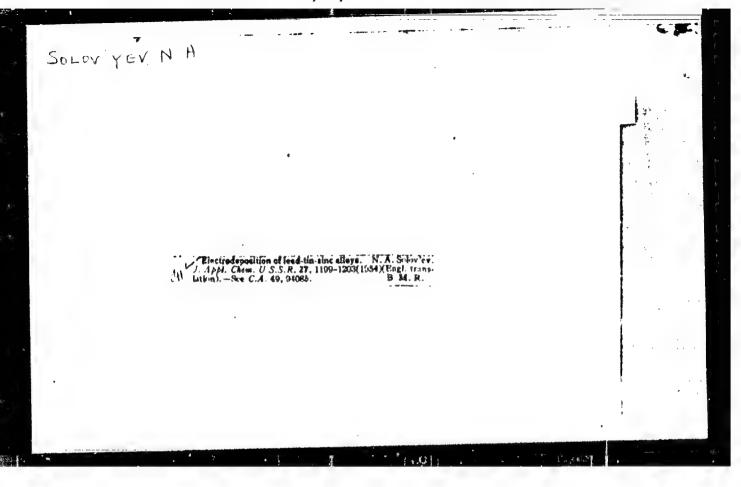
PRITROVSKIY, B.V.; YEFUHI, S.N.; BABINOVICH, N.I.; SOLOV'YEV, H.A.

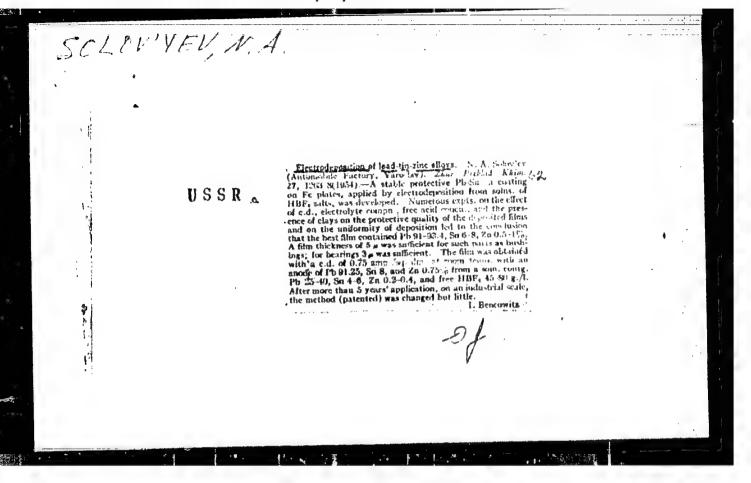
Use of electroencephalography in general anesthesia. Med.prom. (MIRA 13:6) 14 no.6:14-21 Je *60.

1. I Moskovskiy meditsinskiy institut i Vsesoyusnyy nauchnoissledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya.

(KINCTROENCEPHALOGRAPHY) (AMESTHESIA)





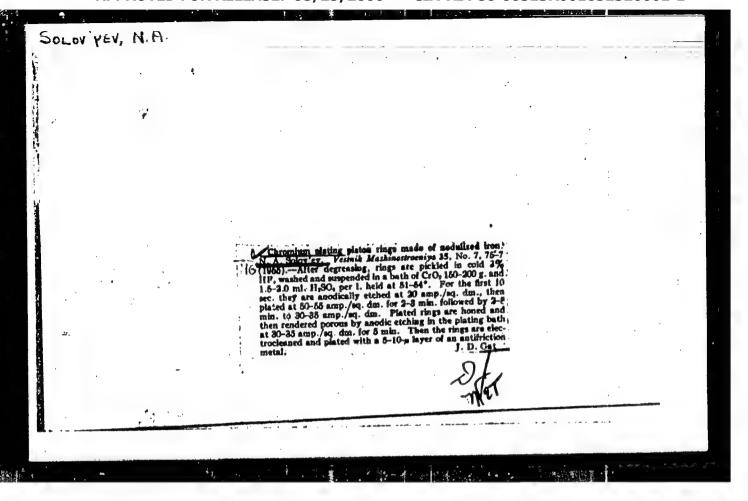


SOLOY'YEV, N., kandidat tekhnicheskikh nauk.

Copper plating steel parts in a pyrophosphate electrolyte. Avt. transp. 32 no.8:21-22 Ag '54.

(Copper plating)

(Copper plating)



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AID P - 4263

: USSR/Engineering Subject

Pub. 128 - 21/33 Card 1/1

Solov'yev, N. A., Kand. Tech. Sci. Author

Coating with an alloy consisting of lead, tin and zinc Title.

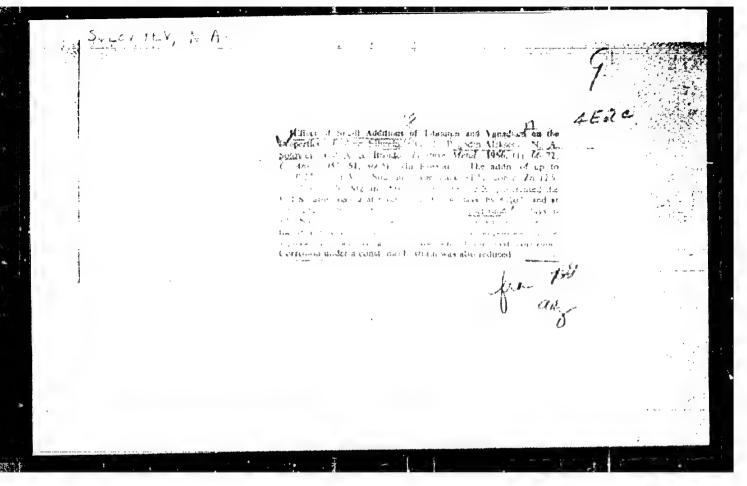
: Vest. mash., #1, p. 59-62, Ja 1956 Periodical

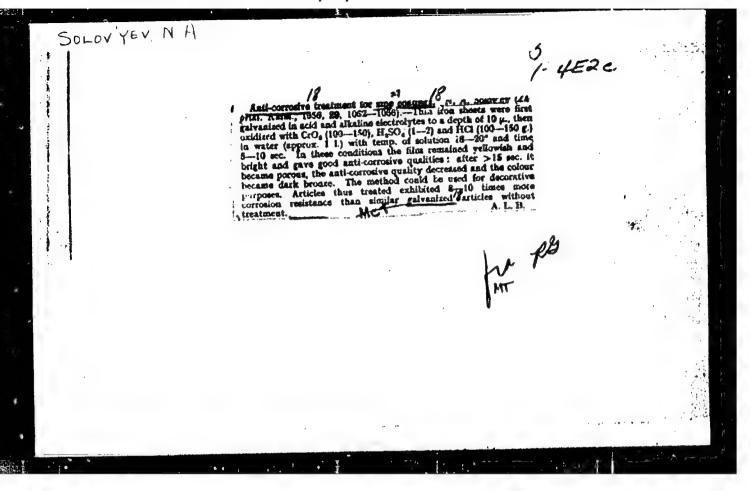
: As a protective anti-corrosive coating for those motor parts which are subjected to the action of organic oxides Abstract

and Diesel fuels at high temperatures, the Yaroslavl' Automobile Plant, uses for plating instead of tin or cadmium plating, a special alloy, namely: 91-93.5% Pb, 6-8% Sn, 0.5-1% Zn. This method of plating is outlined in detail. 4 references, 1940-1953.

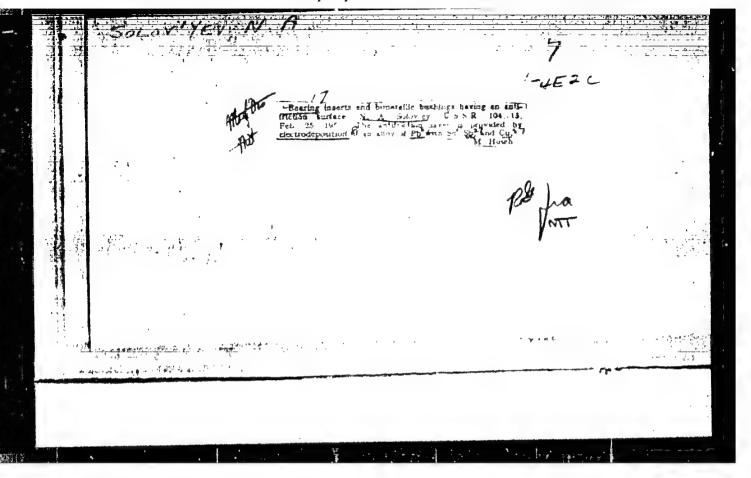
None Institution :

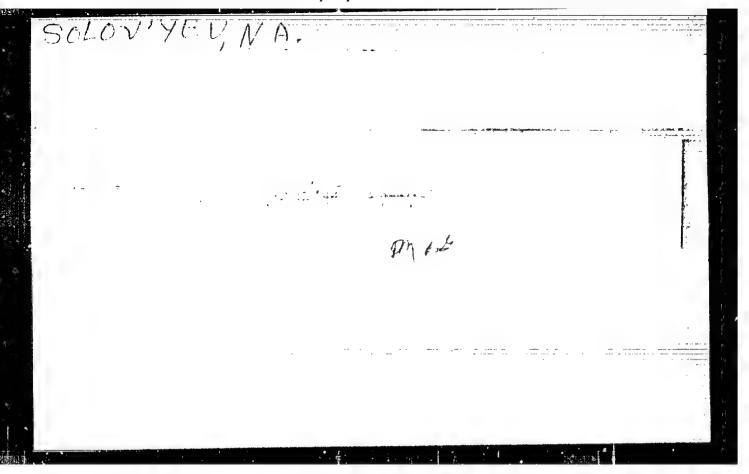
: No date Submitted

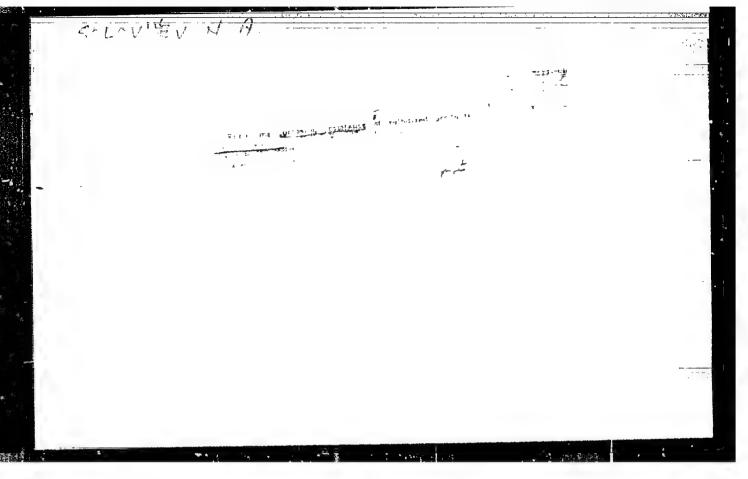




"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652320001-1







SOLOV'YEV, N.A., kandidat tekhnicheskikh nauk.; GORRENKO, A.A., inshener.

Anticorrosive treatment of sinc plated parts. Metalloved, 1 obr.
met. no.2:54-58 F '57. (MIRA 10:4)

1. Yaroslavskiy elektromekhanicheskiy savod (Yamaz)

(Zinc plating) (Oxidation)

136-12-14/18

AUTHORS: Solov'yev, N.A., Broydo, A.S., and Pogodin-Alekseyev, G.I.

TITIE: Effect of Mould Form on the Crystallization of Chromium Bronze Ingots (Vliyaniye formy izlozhnitsy na kristalliz-

atsiyu slitkov khromistoy bronzy,

PERIODICAL: Tsvetnyye Metally, 1957, no.12, pp. 71-74 (USSR)

ABSTRACT: The additions outline effects (ingot porosity and chromium segregation) which led to difficulties at the Krasnyy Vyborzhets Works when making sheets of type \mathfrak{So}_p XO,8 chromium bronze (0.5 - 0.9% Cr). They describe their laboratory experiments with 100-kg ingots cast in models of the works ingot moulds. The alloy was deoxidised with lithium and poured at about 1 200 °C. Three types of ingot mould, each type being cooled in several ways were used. The macro-structures of the ingots and chromium distribution were determined, the best results and chromium distribution were determined, the best results walls and a heated top. This was confirmed by I.Ye. Sharov, walls and a heated top. This was confirmed by I.Ye. Sharov, Ya.F. Shabashov and N.N. Postnikov on 1 750-kg ingots at the Ya.F. Shabashov and N.N. Postnikov on 1 750-kg ingots at the type of mould, the yield in ingots was 80 and in sheet 50% of type of mould, the yield in ingots was 80 and in sheet 50% of the charge weight, the corresponding figures for cylindrical moulds being 62-64 and 20-25%. The other ingot moulds used in Cardl/2 the laboratory work were vertical cylindrical.

Anticorrosive treatment of sinc platings. Zhur.prikl.khim.
29 no.7:1062-1066 Jl '57. (MIRA 10:10)

1.Yaroslavskiy avtomobil'nyy savod.
(Zinc plating) (Corrosion and anticorrosives)

Development of the nickel plating process without using electric current. Vest. mash. 38 no.3:82-84 Mr '58. (MIRA 11:2) (Nickel plating)

sov/80-32-3-17/43

5(2)

Soloviyev, N.A.

TITLE:

AUTHOR:

The Study of the Process of Nickel-Plating Without Application of Current With a Poiser of Ammonium Fluoride (Issledovaniye protsessa nikelirovaniya bez nalozheniya toka s buferom iz ftoristogo ammoniya)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 3, pp 566-572 (USSR)

ABSTRACT:

The chemical nickel-plating, i.e., without electrical current, is a relatively new process. The effect of the composition of the solution on the thickness, hardness and porosity, etc, of the layer is investigated here. If a poiser of ammonium fluoride is used, the thickness of the precipitated nickel layer is $12.5\,\text{M}$ within 3 hours at a temperature of $50-55^{\circ}\text{C}$. The porosity is dense. At a temperature of $70-75^{\circ}\text{C}$ the thickness is $12.4\,\text{M}$ within 1 hour and there are only 19 poros on $7.5\,\text{cm}^2$. The highest growth rate of $33.6\,\text{M}$ per hour of precipitation is obtained at an ammonium fluoride concentration of $15\,\text{g/1}$. The microhardness increases with the concentration of ammonium fluoride. Its highest value is $604\,\text{kg/mm}^2$. If

Card 1/2

SOV/80-32-3-17/43

The Study of the Process of Nickel-Plating Without Application of Current With a Poiser of Ammonium Fluoride

jako Broskirolik, W

sodium hypophosphite at a concentration of more than 15 g/l is used, the microhardness varies between 635 - 707 kg/mm². The highest rate of layer growth is reached at a concentration of 30-35 g/l. The shining covers have a higher wear-resistance under chemical stresses than dull covers. Vagramyan is mentioned in the text. There are 5 tables and 11 references. 6 of which are Soviet and 5 English.

SUBMITTED: July 5, 1957

Card 2/2

LUV/122-50-12-25/34

Solov'yev, H.A., Candidate c Technical Sciences, Docent AUTHOR:

Smoothing of Rough Metal Surfaces by Galvanic Copper TITLE: and Nickel Plating (Sglazhivaniye poverkhnosti chernykh metallov gal'vanicheskim medneniyem i nikelizovaniyem)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Mr 2, pp 69-71 (USSR)

The different methods of measuring the degree of ABSTRACT: smoothing by copper or nickel deposition are discussed;

the preferred method being the relationship of the thickness of the deposit at the centre of the hollows to

that at the crowns of the surface, h3/h1 in Fig 1b. This ratio should obviously be much greater than unity for effective smoothing. This requires a greater degree of polarisation at the crowns than in the hollows. increased concentration of metal salts in the electrolyte,

deposition is greater in the hollows and the smoothing effect is improved. Using an electrolyte: NiSO4.7H2O 250 g/l, NiCl2.6H2O 37.5 g/l, H2BO3 25 g/l, with pH = 4.0 at 550C with cathodic current density 2 amps/dc2

for a duration of 15 min, it was found that addition of

thiourea to the electrolyte in proportion of 0.1 to 0.2 g/l gave a h3/h1 ratio of 1.77; with addition of

Card 1/3

307/122-59-2-25/34

Smoothing of Rough Metal Surfaces by Galvanic Copper and Nickel Plating

diethylthiourea this factor was as high as 3.67 and additions of acetylene compounds gave h3/h1 up to 3.3. In nickel plating the rate of smoothing decreases rapidly with electrolyte pH less than 3 but increases with lower current densities (to 1 amp/dm2) and with higher temperatures (to 77°C). Maximum smoothing effect was found where the angle of the hollows approximates to 90° and with depth about 0.5 mm, the smoothing effect ceases virtually when the angle of the depressions becomes 167°. Distance from anode to cathode and disposition of the depressions has little effect. With a two stage process, a first smoothing layer 25 microns thickness of semi-bright nickel should be followed with a final layer 5 microns thickness of normal bright metal. This gives maximum corrosion resistance. The following nickel electrolyte is recommended for the semi-bright smoothing stage: nickel sulphate 120-140 g/l, nickel chloride 15-60 g/l, boric acid 30-40 g/l, formic acid 5-30 g/l, cumarin 1 g/l. Temperature 60 to 80°C,

Card 2/3

SOV/122-59-2-25/34

Smoothing of Rough Metal Surfaces by Galvanic Copper and Nickel Plating

cathodic current density 4 to 6 amps/dm². A sulfamine nickel electrolyte composition is also described which gives hard and highly corrosion-resistant smooth surfaces. In some cases the use of these processes can eliminate preliminary grinding or polishing of the parts before plating as well as reduction or elimination of final polishing or buffing after plating and thus enable substantial economies to be made in production. There is 1 figure and 16 references, 2 of which are Soviet and 14 English.

Card 3/3

18.7400

77167 SOV/129-60-1-15/22

AUTHOR:

Solov'yev, N. A. (Candidate of Technical Sciences)

TITLE:

Sulfur Saturation of the Surface of Ferrous Metal Parts in Hydrogen-Sulfide-Hydrosulfide Solutions

PERIODICAL:

Metallovedeniye i termicheskaya obrabotka metallov,

1960, Nr 1, pp 47-48 (USSR)

ABSTRACT:

The author investigates the possibilities of sulfurization of parts in aqueous solutions of sulfurous salts at temperatues up to 100°C (Author's Certificate Nr 107073). A hydrogen-sulfide-hydrosulfide solution used for this purpose contains 2.3 g/l sodium bicarbonate, 0.7 g/l sodium sulfide, and 1 g/l commercial hydrochloric acid. Degreased and pre-pickled specimens were immersed in the solution of 20°C. The temperature of the solution increased to 100°C within 90 min and was maintained for 30 min. The specimens were washed in hot water and dried in an electric oven. Friction tests of the three sulfidized specimens of steel 45 were

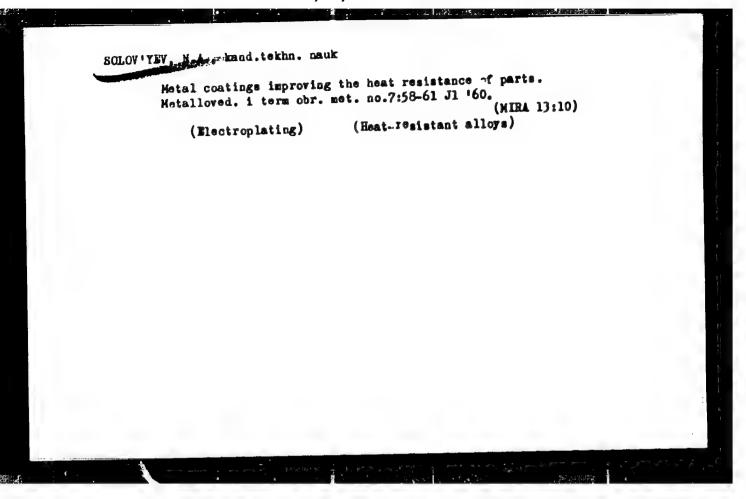
Card 1/2

Sulfur Saturation of the Surface of Ferrous Metal Parts in Hydrogen-Sulfide-Hydrosul-fide Solutions

77167 SOV/129-60-1-15/22

conducted under the directives of Minsk Automobile Plant (Minskiy avtozavod) on a lathe, at 450 spindle rpm pressing a piece of R18 high speed steel (Rockwell hardness R = 61-63) against the rotating component. The author found that sulfur saturation of ferrous metal surfaces in hydrogen sulfide-hydrosulfuric aqueous solution, with subsequent formation of a surface film in 5% aqueous bichromate splution, as well as lubrication, prevents seizing and jamming of components in friction and enhances corrosion resistance. The described method of sulfidizing has technica and economical advantages over analogous treatment in molten salts at high temperatures and is recommended for the treatment of ferrous metals. There are 4 Soviet references.

Card 2/2



SCLAWIYAV, N.A., kund.tekhn.mank, dotsent

Electroplatin; by means of the rubbing method. Vest.magnincutr.
42 no.6:83-45 Je '62.

(Electroplating)

SOLOVIYEV, N.A.

Direct responses of the intect living organism to the action of the electric field. Trudy VMIIMIO no.3:120-123 '63 (MIRA 18:2)

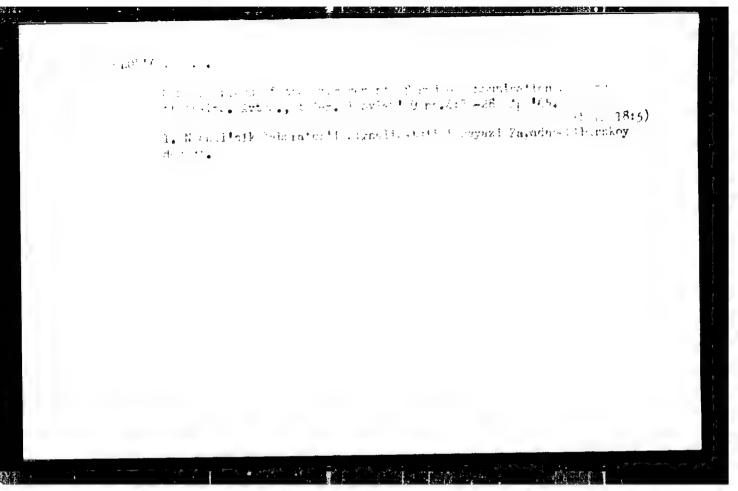
Optimal frequencies of electric stimulation and the use of frequency and amplitude modulation. Ibid. s162-170

LUK'YANOV, Ye.K.; SOLOV'YEV, N.A.

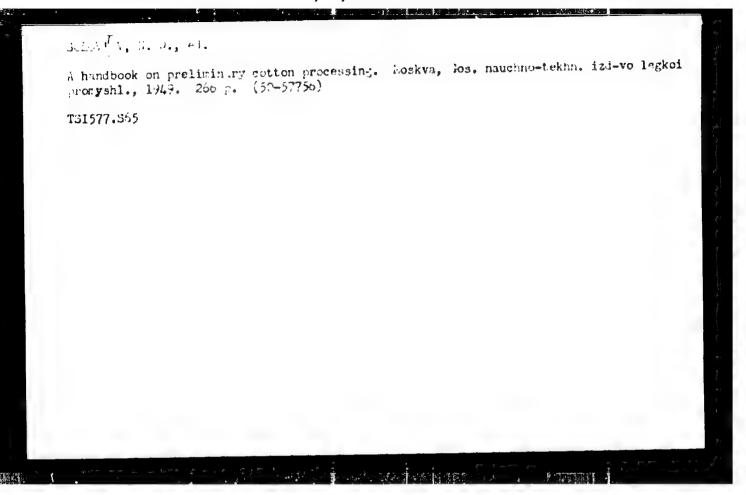
Contactless method of recording respiration. Trudy VNITHIO no.3: 157-161 163 (MIRA 18:2)

NOVIKOV, A.P.; SOLOV'YKV, N.A.

Electric stimulation as recorded from the motor point and the nerve (in health and under the influence of some pharmacological agents). Trudy VNIIMIO no.3:171-175 '63 (MIRA 18:2)



Substantial dependence of functions in algebra of logic. Frobl. kib. no.9:333-335 %



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RODICHEV, S.D.; MERKIN, I.B.; MILOKHOV, N.I.; POPELLO, A.P.; SOLOV'YEV, N.D.; SHEMSHURIN, N.A.; SORKIN, N.B., retsensent; SMIRHOV, I.I., retsensent; BRAYTY, Z.A., retsensent; SOKOLOVA, V.Ye., red.; MEDVEDEV, L.Ye., tekhn.red.

[Handbook on the primary processing of cotton] Spravochnik popervichnoi ohrabotke khlopks. Moskva, Gos.nauchno-tekhn.isd-volit-ry polegkoi promyshl., 1959. 687 p. (MIRA 13:4) (Gotton gins and ginning)

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Solov'yev, N. D., Engineer, Furnika, A. S., Engineer

AUTHORS: Modernization of the WAY-51C (ShAU-51S) Antenna Amplifier

WITLE: Vestnik svyazi, 1960, No. 12, pp. 4 - 7

PERIODICAL: TEXT: The resonance amplifiers were replaced by aperiodic amplifiers in order to improve the reception of the antenna amplifier ShAU-51S. The distributors and the control panel were improved by replacing some elements. A circuit which permits control of the amplifier tube and the operation of the antenna was installed additionally. With this diagram the resistances of line and antenna relative to earth may also be controlled. The modernized version is designated WAY-59C (ShAU-59S). The amplifier operates in a two-cycle circuit with 636ME (6E6PYe) tubes which have a high linearity; it is intended for use in the frequency range of 3.5-24 megacycles. A transformer with two toroidal cores is used as input, having the highest possible transmission coefficient in order to prevent noise as far as possible. The reflection coefficient of the input transformer is no more than 0.25 in the frequency range up

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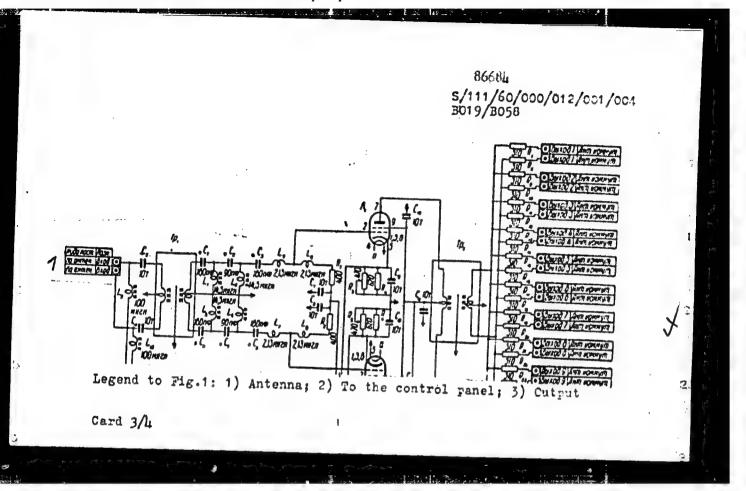
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Modernization of the WAY-51C (ShAU-51S) Antenna Amplifier

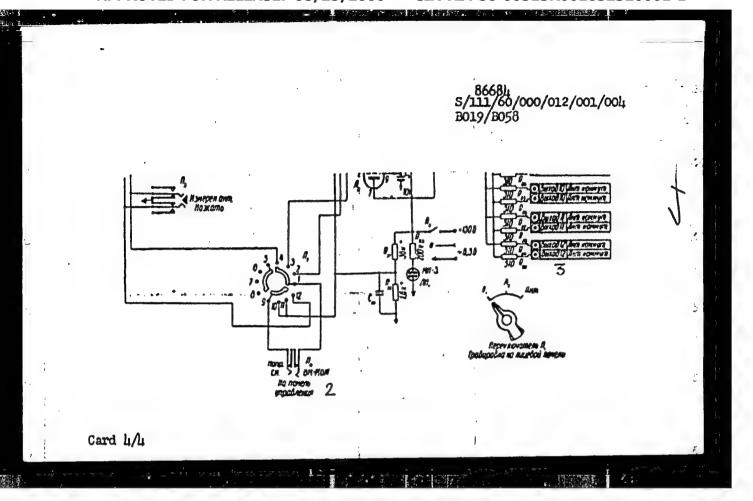
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to 18 megacycles, and no more than 0.4 up to 24 megacycles. A similar transformer was described by Yu. M. Lebedev-Krasin in the periodical "Radiotekhnika" (1957, No. 9). Fig.1 shows the amplifier diagram. Power supply, pilot and control circuits are also discussed. The new antenna amplifier allows up to 120 receivers to be connected in the frequency range of 3.5-30 megacycles, while with the old one a connection of only 80 receivers was possible in the frequency range of 4.3-24 megacycles. The new amplifier shows good linearity and reflection. The reliability of the amplifier has also been improved. There are 7 figures.

Card 2/4



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MERKIN, Isnak Bentsianovich; SOLOV'YEV. Nikolay Dmitriyevich;
KHOKHLOV, Igor' Ivanovich [decessed]; IV'NOV, S.F., kand.
tekhn. nauk, retsenzent; SOKOLOVA, V.Ie., red.; TRISHINA,
L.A., tekhn. red.

[Linting of cottonseeds] Linterovanie khlopkovykh semian.
Moskva, Gizlegprom, 1963. 268 p. (MIRA 1619)

(Linters) (Cottonseed)

ROCANOV, Boris Ivanovich, doktor tekhn. nauk [deceased]; DZHABAROV, Gafar Dzhabarovich, kand. tekhn. nauk; KOTOV, Dmitriy Andreyevich, kand. tekhn.nauk; BALTABAYEV, Sultan Dusayevich, kand. tekhn. nauk; SOLOV'YEV, Nikolay Dmitriyevich, inzh.; DORMAN, I.M., retsenzent; DUKHOVNYY, F.N., red.; SOKOLOVA, V.Ye., red.

[Primary processing of cotton] Pervichnaia obrabotka khlopka.
[By] B.I.Roganov i dr. Moskva, Legkaia industriia, 1965.
(MIRA 18:12)

AUTHOR

SOLOV YEV, N.F., Engineer-Colonel (Leningrad)

105-6-20/26

TITLE

A.P.Davylov's Automatic Instruments and Computors.

(Avtomticheskiye i schetno-reshayushchiye pribory A.P.Davydova - Russian)

PERICDICAL

Elektrichestvo, 1957.

"r 6, pp 77 - 80 (U.S.S.R.)

ABSTRACT

One of the first Russian inventors in the sphere of ship's electrical automatic tuning means was Aleksey Pavlovich Davidov (1826 - 1904). Between 1860 and 1870 a mine, constructed by him was used to fit out the ravy quite as in 1863 his mine relais. Be also invented a system, with the aid of which naval artillery was able to fire automatically. This system was used in the Russian mayy from 1865 to 1896. Because Davidov destroyed all his drawings and sketches for reasons of military security none of his inventions or plans could be found. In this paper a short reconstruction of his inventions is given. The first is the heeling-meter, which was submitted in 1870 and was improved by him later on. The redesign of the heeling-meter came into use in 1901 but now it was fitted out with a motor. Also the reconstructions of the computers are given, with the sid of which it was possible to direct concentric fire to invisible targets. Furthermore, the computation mechanism, the so-called galvanic indicatro, which was fixed on the central telescoping-sight, is described here. (4 fig. and 8 citations)

Not Given.

ASSOCIATION PRESENTED BY SUBMITTED

19.2.1957

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Solovivev, N.F., innhener-polkovnik v otstavke

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(MIRA 15:9)

(Russia—Navy) (Artillery)

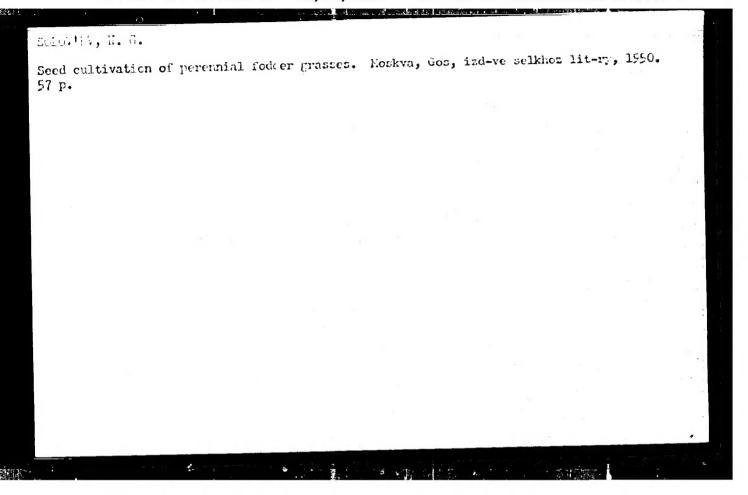
VELIESON, D.M., land.tellbr.mack; Scilovicov. N.i., lanch.

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SOLOVIYEY, N. G.

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SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).



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Sbornik zadanii k laboratornym zaniatiam po lugovodstvu. Moskva, Timiriazevskaia sel'skokhoziaistvennaia akad., 1956. 60 p.

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(Pastures and meadows)